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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,993	12/31/2003	Laurence Rose	134164	. 9989
35114 7590 08/22/2007 ALCATEL LUCENT (FKA ALCATEL INTERNETWORKING, INC.)			EXAMINER	
			LAI, MICHAEL C	
	INTELLECTUAL PROPERTY & STANDARDS 3400 W. PLANO PARKWAY, MS LEGL2 PLANO, TX 75075			PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

*	Application No.	Applicant(s)		
	10/749,993	ROSE ET AL.		
Office Action Summary	Examiner	Art Unit		
	Michael C. Lai	2143		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period value of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status .				
1) Responsive to communication(s) filed on 31 De	ecember 2003.			
2a) This action is FINAL . 2b) ⊠ This	action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Disposition of Claims				
 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.			
Application Papers	•	•		
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 31 December 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)□ objector drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119		·		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage .		
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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DETAILED ACTION

Priority

This application has no priority claim made. The filing date is 12/31/2003.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 4-5, 10, 13-14, are rejected under 35 U.S.C. 102(a) as being anticipated by Tonnby et al. (WO 03/067821 A1), hereinafter referred to as Tonnby.
- 3. Regarding claim 1, Tonnby discloses: In a network including a switching node having a plurality of ports (FIG. 12), a method for dynamically associating one of the ports to a virtual local area network (VLAN) based on a VLAN membership of a device connected to the port, the method comprising: receiving a command associating the device to the VLAN (page 2, lines 8-10: The users can select services by configuring their apparatuses to a selected one of the VLAN:S.); transmitting to the plurality of ports in response to the command, a first message configured to generate a response by the device (page 4, lines 4-7: The access system has a broadcast handler system and broadcast messages involved in service access or service use are picked up by this system in the penult hosting the user port.); receiving at a particular port, a second message from the device responsive to the first message (page 14, lines 8-13: The user device UD11 utilizes in conventional manner an ARP request (Address Resolution

Protocol) to get a MAC address to the IP address IPSA1. The user device UD11 therefore transmits broadcast the ARP message which is received by the handler H1 in the penult P1 via the user port UP11.); identifying the port receiving the second message (page 13, lines 3-8: The handler H1, that gets the frame FR2 via the port UP11, adds the identification for this port It then packs the port identification together with the frame FR2 as a unicast message U1, see FIG. 2, and sends this message to the broadcast handler BH1 in the edge access server EAS.); and associating the identified port to the VLAN associated with the device (FIG. 8 and page 14, lines 27-29: The register REG11 only comprises the penult's own user ports UP11, UP12 and UP13 on respective lists PL11, PL12 and PL13 and the VLAN tags.).

- 4. Regarding claim 4, Tonnby further discloses: storing a list of addresses learned on the identified port (FIG. 5, and page 10, lines 24-26: Gradually, when the users U11-Um1 send their information, the administrative unit AD1 will build up the register REG1 in the broadcast handler BH1, as shown in FIG. 5.).
- 5. Regarding claim 5, Tonnby further discloses: the second message includes an address associated with the device, the method further comprising including the address in the list of addresses learned on the identified port (FIG. 7, table TAB1, and page 13, lines 18-21: the information includes the own port address SAMAC1, the VLAN tag TAG1, a subnet mask SM1, the user MAC address UMAC1 and the service agent's own IP address, IPSA1.).
- 6. Regarding claim 10, Tonnby discloses: A switching node comprising: a port coupled to a device associated with a virtual local area network (VLAN) (FIG. 12);

means for receiving a command associating the device to the VLAN (page 2, lines 8-10: The users can select services by configuring their apparatuses to a selected one of the VLAN:S.); means for transmitting to the port in response to the command, a first message configured to generate a response by the device (page 4, lines 4-7: The access system has a broadcast handler system and broadcast messages involved in service access or service use are picked up by this system in the penult hosting the user port); means for receiving at the port, a second message from the device responsive to the first message (page 14, lines 8-13: The user device UD11 utilizes in conventional manner an ARP request (Address Resolution Protocol) to get a MAC. address to the IP address IPSA1. The user device UD11 therefore transmits broadcast the ARP message which is received by the handler H1 in the penult P1 via the user port UP11.); means for identifying the port receiving the second message (page 13, lines 3-8: The handler H1, that gets the frame FR2 via the port UP11, adds the identification for this port It then packs the port identification together with the frame FR2 as a unicast message U1, see FIG. 2, and sends this message to the broadcast handler BH1 in the edge access server EAS.); and means for associating the identified port to the VLAN associated with the device (FIG. 8 and page 14, lines 27-29: The register REG11 only comprises the penult's own user ports UP11, UP12 and UP13 on respective lists PL11, PL12 and PL13 and the VLAN tags).

7. Regarding claim 13, Tonnby further discloses: means for storing a list of addresses learned on the identified port (FIG. 5, and page 10, lines 24-26: Gradually,

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when the users U11-Um1 send their information, the administrative unit AD1 will build up the register REG1 in the broadcast handler BH1, as shown in FIG. 5.).

8. Regarding claim 14, Tonnby further discloses: the second message includes an address associated with the device, the switching node further comprising means for including the address in the list of addresses learned on the identified port (FIG. 7, table TAB1, and page 13, lines 18-21: the information includes the own port address SAMAC1, the VLAN tag TAG1, a subnet mask SM1, the user MAC address UMAC1 and the service agent's own IP address, IPSA1.).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 2-3 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tonnby as applied to claim 1 above, and in view of Rueda et al. (US 2002/0112076 A1), hereinafter referred to as Rueda.
- 11. Regarding claims 2-3 and 11-12, Tonnby doesn't disclose that the device is a silent device or a printer. However, Rueda discloses a network printing method (FIG. 23 and paragraph 0217: a network printer must support a network interface card so that it can be directly connected to the LAN, and have multiprotocol support the ability to handle print jobs on top of different network protocols.). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of

Rueda into Tonnby' method to have a silent device, like a printer, in the network. The motivation would be convenience, e.g., for people traveling outside their office to be able to send print jobs to a hotel printer.

- 12. Claims 6-9, 15-18, and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tonnby in view of Rueda, and further in view of Berlovitch et al. (US 6.061,334), hereinafter referred to as Berlovitch.
- 13. Regarding claims 6 and 15, Tonnby and Rueda disclose: determining whether the device associated with the address is a silent device configured to respond to traffic transmitted by another device but not configured to initiate traffic to other devices (Rueda, FIG. 23 and paragraph 0217: a network printer must support a network interface card so that it can be directly connected to the LAN, and have multiprotocol support – the ability to handle print jobs on top of different network protocols); transmitting to the plurality of ports based on the determination, a third message configured generate a response by the device (page 4, lines 4-7: The access system has a broadcast handler system and broadcast messages involved in service access or service use are picked up by this system in the penult hosting the user port); receiving at a second port, a fourth message from the device responsive to the third message (page 14, lines 8-13: The user device UD11 utilizes in conventional manner an ARP request (Address Resolution Protocol) to get a MAC address to the IP address IPSA1. The user device UD11 therefore transmits broadcast the ARP message which is received by the handler H1 in the penult P1 via the user port UP11); identifying the second port receiving the fourth message (page 13, lines 3-8: The handler H1, that gets

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the frame FR2 via the port UP11, adds the identification for this port It then packs the port identification together with the frame FR2 as a unicast message U1, see FIG. 2, and sends this message to the broadcast handler BH1 in the edge access server EAS); and associating the second port to the VLAN associated with the device (FIG. 8 and page 14, lines 27-29: The register REG11 only comprises the penult's own user ports UP11, UP12 and UP13 on respective lists PL11, PL12 and PL13 and the VLAN tags).

- 14. Tonnby and Rueda do not disclose: detecting a triggering event removing the address associated with the device from the list of addresses learned on the identified port. However, Berlovitch discloses an apparatus to monitor and update changes in the configuration of the network (col. 7, lines 55-64, and col. 25, lines 41-53. The monitoring and updating are for both physical and logical changes in the network.).
- 15. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Berlovitch into Tonnby's and Rueda's method to monitor and update network configuration changes. The motivation would be to keep network configuration up-to-date and better management of network resources.
- 16. Regarding claim 19, together Tonnby, Rueda and Berlovitch disclose: A switching node comprising: one or more ports receiving and transmitting data units (Tonnby FIG. 12); a first table storing a list of addresses learned on the one or more ports (Tonnby FIG. 5, register REG1); a first module coupled to the first table (Tonnby FIG. 2, broadcast handler BH1); and a second module coupled to the first module, characterized in that the first module detects a triggering event, removes an address from the list of addresses stored in the first table based on the triggering event

(Berlovitch col. 7, lines 55-64, and col. 25, lines 41-53. The monitoring and updating are for both physical and logical changes in the network), determines whether the address is associated with a silent device configured to respond to traffic transmitted by another device but not configured to initiate traffic to other devices (Rueda, FIG. 23 and paragraph 0217: a network printer must support a network interface card so that it can be directly connected to the LAN, and have multiprotocol support – the ability to handle print jobs on top of different network protocols), and forwards the address to the second module based on the determination, further characterized in that the second module transmits to the one or more ports a first message configured to generate a response by the silent device associated with the forwarded address (Tonnby page 4, lines 4-7: The access system has a broadcast handler system and broadcast messages involved in service access or service use are picked up by this system in the penult hosting the user port.), also characterized in that the first module receives at a particular port, a second message from the silent device responsive to the first message (Tonnby page 14, lines 8-13: The user device UD11 utilizes in conventional manner an ARP request (Address Resolution Protocol) to get a MAC address to the IP address IPSA1. The user device UD11 therefore transmits broadcast the ARP message which is received by the handler H1 in the penult P1 via the user port UP11), identifies the particular port receiving the second message (Tonnby page 13, lines 3-8: The handler H1, that gets the frame FR2 via the port UP11, adds the identification for this port It then packs the port identification together with the frame FR2 as a unicast message U1, see FIG. 2, and sends this message to the broadcast handler BH1 in the edge access server EAS),

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and associates the identified port to a VLAN associated with the silent device (Tonnby FIG. 8 and page 14, lines 27-29: The register REG11 only comprises the penult's own user ports UP11, UP12 and UP13 on respective lists PL11, PL12 and PL13 and the VLAN tags).

- 17. Regarding claims 7-8, 16-17 and 20, Berlovitch further discloses: the triggering event is a port down event and the port down event is generated in response to the device being decoupled from the identified port. (col. 36, lines 42-46: A communication failure. Examples of communication failures include a failed attempt of a NetWare client end-station to initially connect to a server end-station, and disconnection of a NetWare client end-station from a server end-station).
- 18. Regarding claims 9, 18, and 21, Rueda further discloses: the triggering event is fulfillment of an ageing time for removing the address (page 23, paragraph 0333: After a period of inactivity, is safe to delete the appropriate route from the IP routing table.).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Lai whose telephone number is (571) 270-3236. The examiner can normally be reached on M-F 7:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on (571) 272-5026. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Lai 13AUG2007

MARVIN M. LATEEF

SUPERVISORY PATENT EXAMINER